PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference P5015PCT	FOR FURTHER ACTION	Priority date (day/month/year) 17 February 2004 (17.02.2004)			
International application No. PCT/GB2005/000557	International filing date (day/month/year) 17 February 2005 (17.02.2005)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant MQP LTD					

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1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.				
-	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	This report contains indications relating to the following items:				
·	Box No. 1	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
-	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	The International Bureau will not, except where the applican date (Rule 44bis .2).	communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but t makes an express request under Article 23(2), before the expiration of 30 months from the priority			
		Date of issuance of this report 22 August 2006 (22.08.2006)			

Authorized officer

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Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

From the INTERNATIONAL SEARCHING AUTHORITY			ORITY		REC'D OK JUN 2005
To:					PCT PCT
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
		·		Date of malling (day/month/year)	see form PCT/ISA/210 (second sheet)
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/GB2005/000557		International filing date (17.02.2005	(day/month/year) Priority date (day/month/year) 17.02.2004		
	International Patent Classification (IPC) or both national classification and IPC C22B9/02, C22B21/06				
	icant P LTD				
1.	This opinion co	ontains indication	ons relating to the foll	owing items:	
	⊠ Box No. I	Basis of the op	inion		•
	☐ Box No. II	Priority			
	☐ Box No. III	-	nent of opinion with reg	ard to novelty, inven	tive step and industrial applicability
	☐ Box No. IV Lack of unity of invention				
	⊠ Box No. V		ement under Rule 43 <i>bi</i> s tations and explanations		to novelty, Inventive step or industrial attement
	☐ Box No. VI	Certain docum	ents cited		•
	Box No. VII		in the international app		
	☐ Box No. VIII	Certain observ	ations on the internation	nal application	
2.	FURTHER ACTI	ION			
	written opinion o the applicant cho	f the Internations coses an Author eau under Rule	al Preliminary Examinin ity other than this one to	g Authority ("IPEA") be the IPEA and th	rill usually be considered to be a . However, this does not apply where le chosen IPEA has notifed the national Searching Authority
	submit to the IPE	EA a written reply date of mailing of	y together, where appro	priate, with amendo	e IPEA, the applicant is invited to nents, before the expiration of three on of 22 months from the priority date,
	For further option	ns, see Form PC	T/ISA/220.		
3.	For further detail	s, see notes to f	Form PCT/ISA/220.		,
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Name and mailing address of the ISA:

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000557

_	Box N	o. I Basis of the opinion		
1.	With re	egard to the language , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.		
	la	nis opinion has been established on the basis of a translation from the original language into the following inguage , which is the language of a translation furnished for the purposes of international search noter Rules 12.3 and 23.1(b)).		
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:			
	a. type of material:			
		a sequence listing		
		table(s) related to the sequence listing		
	b. format of material:			
		in written format		
		in computer readable form		
	c. time	of filing/furnishing:		
		contained in the international application as filed.		
		filed together with the international application in computer readable form.		
		furnished subsequently to this Authority for the purposes of search.		
3.	. ha	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional upies is identical to that in the application as filed or does not go beyond the application as filed, as oppropriate, were furnished.		
4.	. Additional comments:			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000557

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-20

No:

Claims

Inventive step (IS)

Yes: Claims

1-20

No:

Claims

Industrial applicability (IA)

Yes: Claims

1-20

No: Claims

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2005/000557

1. Prior art

D1: US 2002/056677 A1 (SCHNEIDER WOLFGANG ET AL) 16 May 2002 (2002-05-

16)

D2: EP-A-0 276 576 (ALCAN INTERNATIONAL LIMITED) 3 August 1988 (1988-08-03)

2. Novelty and inventive step (Art. 33 PCT)

D1 discloses a method for filtering and adding a grain refining agent comprising passing liquid metal through a porous filter, contacting the filtered metal with a grain refining agent, mechanical mixing of the metal and the grain refining agent and filtering of the melt using a second filter (see claim 11 and Figure).

The method of claim 1 differs from the method according to D1 in that a filter cake formation agent is added to a metal melt. This agent promotes the formation of a suitable filter cake, which consists of deposited non-compressible layers. In this way, the filter cake itself is inherently porous and the pores of the filter remain sufficiently open that metal can flow through without significant change in metallostatic head. Therefore, filter life is increased and the filter is re-usable.

No hint could be found in the available prior art to modify the method of D1 so as to arrive at the claimed invention.

D1 does not address the issue of how the rate of build up of the filter cake is to be controlled.

D2 discloses a method for forming a filter cake by using a pre-wetted additive (filter cake forming agent) on a porous substrate (see p. 3, l. 7-29). D2, however, does not take account of the role of grain refiners in destroying the development of filter cakes.

Therefore, inventive step is acknowledged.

For the same reasons as above, the subject matter of the independent claims 2, 3 and 16 are considered to involve an inventive step.